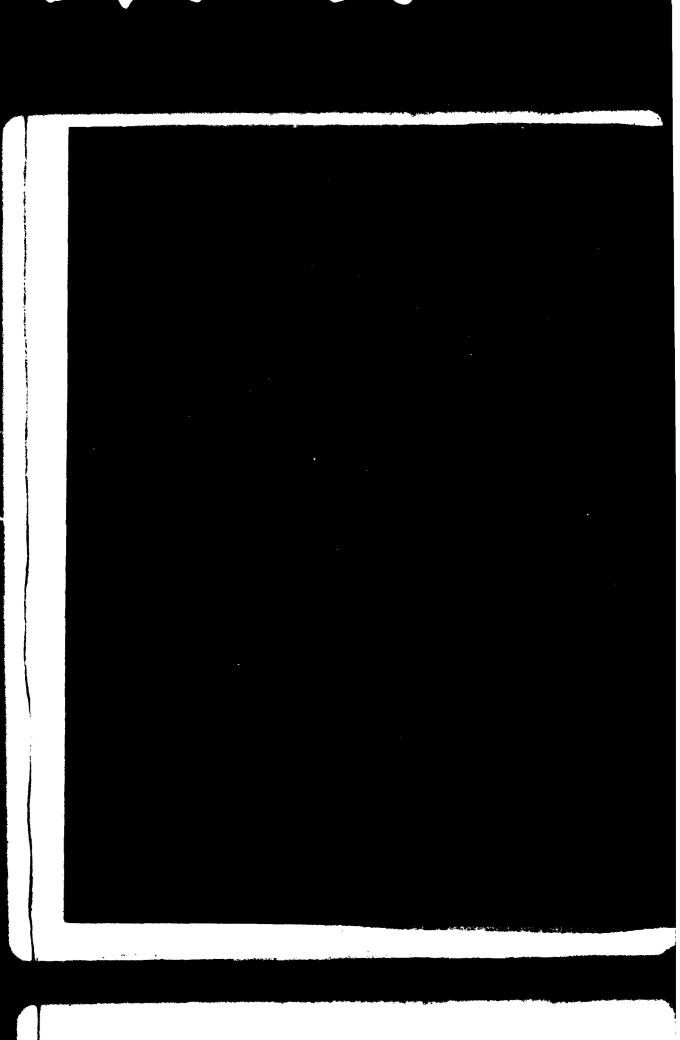


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INTRODUCTION

1482	21AT LANCE			,	Mis	sile	Nu	mber		241	9	_, Rou	n d Nu mbe	r3	49	APT
was	launched	from	LC-3	39			۰,	White	Sand	is Mi	issile	Range	(WSMR),	New	Mex	cico,
at_	0815 MDT		_on	12	May	1980			 .	The	sched	uled l	aunch ti	me wa	3 S	
0815	MDT.		_·													
								DISCUS	SION							

Meteorological data were recorded and reduced by the White Sands Meteorological Team. Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were obtained by the following methods:

1. Observations

- a. Surface
- (1) Standard surface observations to include pressure, temperature ($^{\circ}$ C), relative humidity, dew point ($^{\circ}$ C), density (gm/m 3), Wind direction and speed, and cloud cover were made at the <u>LC-39</u> Met Site at T-0 minutes.
- (2) Monitor of wind speed and direction from one anemometer was provided in the launch control room.
 - b. Upper Air
- (1) Low level wind data were obtained from RAPTS T-9 pibal observation at:

SITE AND ALTITUDE

LC-39 2160m 0805 MDT LC-39 3660m 0815 MDT

(2) Air structure data (rawinsonde) were collected at the following Met Sites. Data were collected from surface to as high as possible in 500-feet increments.

SITE AND TIME

WSD 0815 MDT Jallen 0815 MDT Stallion 0815 MDT

TABLE 1. SURFACE OBSERVATIONS TAKEN AT 0815 MDT, 12 May 1980, at LC-39, 14821AT LANCE, Missile Number 2419, Round Number 349 APT.

ELEVATION	4064	TT/MSL
PRESSURE	876.5	MBS
TEMPERATURE	15.5	o _c
RELATIVE HUMIDITY	38	
DEW POINT	1.1	U C
DENSITY	1053	GM/M ³
WIND SPEED	6	KTS
WIND DIRECTION	300	DEGREES
CLOUD COVER	1	Cu

PILOT BALLOON MEASURED WIND DATA

RELEASED	FROM LC-	-39	Div.1	12 May 1	980		TIME 0805	MDT
	co	ORDINATES	(WSTM)	(= 530,938.8 2		186,564.96	₩ 406	3.75
OTE: W	IND DIRECT	IONS ARE	REFERENCED	TO TRUE NORT	ี			
HEIGHTS A	ARE METERS	AGL_X	OR FEET AGE	•				
HEIGHT AGL .	DIRECTION DEGREES	SPEED KTS	HETGHT AGL	DIRECTION DEGREES	SPELD PIS	HE I GHT AGL	PEGRETS	SPEED KTS
sfc	300	05	1860	267	22			
60	MISG	MISG	1920	271	23			
120	289	12	1980	276	24			+
180	323	10	2040	281	25			
240	327	08	2100	274	27		!	1
300	317	10	2160	272	28	t i i mar ar i i magalagi t	·	· · · · · · · · · · · · · · · · · · ·
360	315	10				· · · · · · · · · · · · · · · · · · ·		; ; }
420	301	09	1	1	i			 -
480	298	06			1	1		
540	296	10						
600	307	11						
660	306	11						
720	294	12						
780	277	13				· · · · · · · · · · · · · · · · · · ·		
840	274	17						
900	274	16	\$,			
960	272	16						
1020	267	16	1	• • • • • • • • • • • • • • • • • • •		!		
1080	268	16	1				** * * * * * * * * * * * * * * * * * * *	
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1200	255	16		* ***				
1260	259	14		!				
1320	262	13					****	
1380	260	10		in the mine commence is not	-		THE PERSON NAMED OF THE PE	
1440	248	12						
1500	256	11						
1560	246	12						
1620	246	13						
1680	251	12			- 1			
1740	256	16						
1800	259	17						

				PILOT	BALLOON MEAS	SURED WIND	DATA			
TABLE 3.										
RELEASED	FROM	LC-39		DATE	12 May	1980		_TIME	081	5 MDT
	COC	ORDINATES	s (WS	STM) X=	530,938.82		186,564.9	<u>6</u> н	406	3.75
NOTE: WI	ND DIRECT	IONS ARE	RE FE	RENCED T	OTRUE NORTH					
HEIGHTS A	ARE METERS	AGL_X	OR F	FEET AGL	•					
	DIRECTION	1 1			DIRECTION	!	HEIGHT			SPEED
	DEGREES	KTS		AGI. 1860	0EGREE 5 270	21	AGL	DEGPEE		I KTS
sfc	280	04	-	1920	275	24				ļ
60	MISG	MISG	-	1980	276	24		.		
120	287 282	05 11	+	2040	274	25				• ;
240	287	10	-	2100	268	26				
300	275	14	+	2160	275	28	İ			!
360	265	14	-	2220	269	27				
420	282	12	į.	2280	273	29	;			
480	274	10								
540	284	12	-	2340	273	30				
600	280	13	-	2400 2460	272	31				
660	274	15	-	2520	269	34				
720	266	14	-	2580	259 260	38	ļ			
780	273	15	-	2640	261	39				·
840	267	14	L	2700	259	38				
900	264	14	-	2760	260	37				
960	263	15	-	2820	262	36				
1020	257	15	ļ 	2880	262	37				
1080	252	12	1_	2940	259	34				
1140	258	15	-	3000	261	35				
1200	243	10	-	3060	262	34		· · · · · ·		
1260	240	11	i -	3120	259	35				
1320	240	12	t	3240	258	36				
1380	249	11		3300	266	34				
1440	247	10	-	3360	265	38				
1500	246	12	-	3420	276	36				
1560	231	10	-	3480	260	37				
1620	241	11		3540	270	38				
1680	243	11	-	3600	276	44				

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SIATION ALTITUDE 3989.00 FEET MSL 12 MAY 60 0815 MRS MDT ASCENSION NO. 200

SIGNIFICANT LEVEL DATA 1330020250 WHITE SANDS

oEODETIC COORDINALES 32-40043 LAI LEG 106-37033 LON LEG

	MEL.HUM. Percent
TABLE 4.	TEMPERATURE AIR DEWPOINT DEGREES CENTIGNADE
	PRESSURE GEOMETRIC ALTITUDE ILLIBARS MSL FEET
USIS MIKS MUI	PRESSURE GEOMETRI ALTITUDE MILLIBARS MSL FEET

RS MSL FEET DEGREES CENTIONALE 3989.0 15.8 1.2 37459.6 12.8 6567.8 6016.8 1737.3 600 12.0 12.0 12.0 12.0 12.0 12.0 12.0 12	באטפיב שאין	At TIT		1	Pr RCENT
76.7 3989.0 15.8 1.2 37.8 10.0 6567.8 8.2 -3.0 45.0 10.0 6567.8 8.2 -3.0 45.0 10.0 10.0 10.0 10.0 10.0 10.0 10.0 1		Σ	EGREE	CENTIGRADE	: •
50.0 4909.6 12.8 -1.5 37.0 0.0.0 6567.8 8.2 -3.0 45.0 0.0.0 10154.7 2.1 -21.8 15.0 0.0.0 10154.7 2.1 -21.8 15.0 0.0.0 10154.7 -2.1 -21.8 15.0 0.0.0 10154.7 -2.1 -21.8 15.0 0.0.0 10152.7 -1.2 -24.5 15.0 0.0.0 1025.7 -1.5 -24.7 15.0 0.0.0 1025.7 -1.5 -24.7 15.0 0.0.0 1025.7 -1.5 -24.7 15.0 0.0.0 2423.7 -29.6 -45.7 109.2 17.0 0.0.0 39734.8 -56.0 -45.7 -49.2 19.0 0.0.0 39734.8 -56.0 0.0.	78.	989.	Š	•	
00.0 6567.8 8.2 -3.0 45.6 66.1 7737.3 6.0 -12.0 26.0 58.2 6016.8 7.5 -14.0 19.0 50.0 10154.7 2.1 -21.0 26.0 50.0 10154.7 -1.2 -24.5 15.0 50.0 11825.0 -1.2 -24.7 16.0 38.6 12560.3 -1.5 -24.7 15.0 58.6 14.5 -29.2 16.0 16.0 71.2 20267.7 -18.3 -29.2 16.0 71.2 20267.7 -18.3 -41.0 17.0 71.2 20267.7 -18.3 -41.0 17.0 88.6 20170.8 -29.6 -45.7 19.0 88.6 20170.8 -29.6 -45.7 19.0 88.6 20170.8 -29.6 -45.7 19.0 88.6 20170.8 -58.0 -45.7 19.0 88.6 43295.0 <td>50.</td> <td>606</td> <td>ò</td> <td>•</td> <td>-</td>	50.	606	ò	•	-
66.1 7737.3 6.0 -12.0 26.0 58.2 8016.8 7.5 -14.0 19.0 50.0 10154.7 2.1 -21.8 15.0 58.6 11855.0 -1.2 -24.7 15.0 58.6 15552.7 -18.3 -29.2 15.0 58.6 20170.8 -29.6 -45.7 17.0 58.6 20170.8 -29.6 -45.7 18.0 58.6 20170.8 -29.6 -45.7 19.0 58.6 20170.8 -56.0 -49.2 19.0 58.6 43295.0 -56.0 -56.0 18.0 58.6 43295.0 -56.0 -56.0 18.0 58.6 43295.0 -56.0 -56.0 18.0 59.0 45734.7 -56.0 -56.0 18.0 59.1 6 51351.3 -56.0 -66.0 18.0 59.2 63513.6 -66.0 -66.0 18.0 59.2 63513.6 -66.0 18.0 59.2 63519.8 -55.9 -64.0 18.0	ů,	567.	œ	9	ŝ
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7.2 62254.3 -6 3.2 63519.8 -5	ċ	1428.	•		
3.2 63519.8		2254.	0.49-		
	3	351	-55.9	•	

0815 HRS MDT STATION ALIITUDE 3989.00 FEET MSL 12 May 03 ASCE 45104 NO. 200

SIGNIFICANT LEVLL DATA 133002020U WHITE SANUS

JEODETIC COOKUINATES 32.40043 LAT DEG 106.37033 LON DEG

TABLE 4 (continued)

TEMPERATURE AIR DEWPOINT DEGREES CENTIGHADE PRESSURE GEOMETAIC ALTITUDE MILLIBARS MSL FEET

-55.7 -55.7 -49.4 -50.8 68446.8 69974.1 73083.2 74527.3 50.0 46.5 40.2 37.6

REL.HUM. PERCENT

STATION ALITIUDE 3439.30 FEET MSL 12 MAY BO 0815 HRS MDT ASCELSIO, NO. 200

UPPER AIR DATA 133002020U WHITE SANDS

JEODETIC COOKUINATES 32.40043 LAT (EG 106.37033 LON (EG

SAN	5.
WHITE	TABLE

INDEX OF REFRACTION	_	1.0002c.5	1.000200	1.000255	1.000251	1.000248	~	1.000256	1.000228	1.000219	1.066215	1.000211	1.000207	1.6000204	1.000200	1.000197	-	-	1.0001117	_		1.000178	1.000176	1.0001/3	1.660169	1.00016.7	1.000104	1.000161	1.000159	7	-	1.000151
1A SPEEU KNOTS	12.0	12.1	13.3	14.5	15.7	17.0	18.3	19.9	21.7	22.4	22.6	23.4	24 • 5	26.3	28.5	30.2	32.2	34.3	36.3	37.8	39•0	40.5	42.2	44.0	48.2	51.7	54.5	57.3	58.1	59.1	6.09	62.3
#INU DATA DIRECTICM S DEGREES(IN) K	300.0	599.9	590.4	293.4	5-067	7∙₽07	201.5	274.3	203∙€	270.7	6.472	274.4	273.2	270.0	207.5	207.6	202.5	1.002	201.9	0.602	200°1	269.1	270.5	271.0	272.0	272.2	271.2	270.3	209.1	208.0	20102	200.0
SPEEU OF SOUND KNOTS	6th 3.2	663.1	601.2	659.3	6:7.1	650.1	654.4	653.1	651.9	6259	651.5	65010	648.5	0.740	2.540	6+4+9	543.4	642.5	642.3	040.0	1.600	657.4	635.7	634.7	634.7	633.5	632.1	5.000	4.629	0.429	9.070	625.3
DENSITY S GM/CUBIC METER	1056.4	1056.1	1043.3	1030.5	1010.8	1003.3	0.066	975.8	961.6	941.1	927.5	914.6	901.8	889.3	870.1	862.8	9.648	835.8	820.6	808.7	4.797	786.3	775-4	762.8	748.0	736.2	724.9	713.7	702.8	692.0	691.4	670.8
REL.HUM. PERCEUT	37.0	37.0	37.0	37.4	39.8	42.3	44.7	38.0	54.9	19.4	18.1	17.2	16.2	15.3	15.0	15.0	15.0	15.0	15.0	15.2	15.4	15.6	15.9	15.7	15.1	15.1	15.3	15.4	15.6	15.8	15.9	16.1
TEMPERATURE R DEWPOINT EES CENTIGRADE	1.2	T•I		-1.6	-5.0	-2•4	-5.9	0•9-	6.0-	7071-	-16.2	-17.9	-19.5	-21.3	-22.3	-23.1	-23.9	-24.5	-24.7	-25•6	-26.6	-27.6	-28.6	-29.3	-23.8	-30.6	-31.4	-32.2	-33.1	-33.9	-34.8	-35.5
TEMP AIR DEGREES	15.8	15.8	14.1	12.5	11.2	9.6	3.8	7.4	9• 4	7.4	6•3	5•0	3.8	2.5	1•4	†	9•-	-1.3	-1.5	-2.7	-4.2	-5.6	-7.0	-7.8	-7.8	-8.8	-10.0	-111-1	-12.2	-13.4	-14.5	-15.6
PRESSURE MILLIGARS	973.7	870.4	362.7	847.2	d31.8	810.8	402.0	1,37.3	772.9	158.1	9.44/	730.9	717.5	704.1	6.069	6.779	5.500	9,759	€•Ûħ0	628.0	0.010	504.5	965.6	2.196	0.07¢	550.8	547.8	537.1	550.5	510.2	0. 00¢	490.0
GEONETHIC ALTITUE NSC FEET	0.6850	4000	J•0u5+;	5000 n	J.00.60	0.0000	0.200 • 0	7.100.6	7,000-1	8000°	3500.0	9-100-6	9.00.0	10000	10500.0	11,00.2	11500.0	0.00 (17T)	12,000.5	0. 000€₹	1.5500•0	1+000·ū	14500.0	15,000.0	155P0•0	10003.	10000	17(100.F	17,000.0	10000	10500•U	19000.0

STAIJON ALIITUDE 3989.00 FEET MSL 12 May &0 Ascer,510m no. 250

UPPER AIR LATA 133002020 WHITE SANUS

JEODETIC COOMDINATES 32.40043 LAT DEG 106.37033 LON DEG

INUEX OF HEFRACTION	1.060149	•		1.000139	. ~			1.0001	1.000125	1.000123	_		1.000117		1.000112		1.000108	1.000106	1.000104	1.000163	1.000101	•	1.000047	1.000096	1.000054	1.000092	1.000091	-	1.0000.7	1.000006
DATA SPEED V) KNOTS	63.5	63.6	68.2	78.7	63.2	87.0	89.9	91.9	93.3	92.2	91.2	69.2	87.7	87.6	97.6	87.7	87.0	86.1	87.3	88.8	91.0	93.2	0.46	9.46	95.2	9.56	9.46	0.46	92.2	ე•06
MIND DI DIRECTIO. DEGREES(TN)	204.5	50097	200.5	N.00.V V.00.V	2.8c2	2000	4 · 602	1.562	251.3	548.4	247.6	247.6	247.5	3.842	6.6 ±2	251.3	252.4	253.0	251.0	520.5	6.8+2	547.4	246.7	245.4	245+B	245.7	245.3	た・セセン	243.4	241.7
SPELD OF SOUND KNOTS	0.420	621.3	619.8	618.4	010.2	610.7	612.9	614.6	013.2	011.6					_						597.0	596.1	594.7	595.4	594.1	5.06.5	589.4	588.1	5ab.7	565.4
DEWSITY S GM/CUBIC METER	660•1 649•5	639.3	629.2	619•4	598.6	585.4	574.7	565.3	2.955	547.3	538.0	530.1	520.9	511.4	502.2	493.1	484.2	475.7	467.8	460.1	452.5	6.444	436.9	429.1	451.4	413.9	406.5	399.3	392.2	385.2
REL.HUM. PERCENT	16.5	17.0	17.0	17.0	17.2	17.8	18.3	18.8	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	19.0	17.3**	12.8**	8.3**	3.8**									
TEMPERATURE R DEWPOINT EES CENTIGRADE	-36.2	-37.7	-38.7	-39.7	-41.1	5.05-	L+0+-	-41.3	-45.5	E+3+3	で・ココー	-45.4	-46.2	-46.8	-47.5	-48.1	-43·B	-50.4	-53.9	-58.4	-65.2									
TEMP AIR Degrees	-16.7	-18.9	-20-1	-22.5	-23.0	-22.6	-23.2	-24.3	-25.5	-26.7	-27.9	-56.5	-30•1	-30.9	-31.7	-35.4	-33.2	-34.5	-35.4	-36.6	-37.9	-39.1	-40.1	-41.1	-42.2	-43.2	2.44-	-45.3	-46.3	4.7.4
PRESSURE MILLIBARS	486.1	460.7	457.2	447.4	429.8	421.0	412.4	403.9	395.5	587.3	379.2					240	333.5	326.4	319.3	312.4	305.6	299•0	292.3	285.8	279.4	273.2	267.1	20102	255.4	349.6
GEUNETRIC ALTITUDE MSL FEET	19500.n 20000.n	20500.7	21,100.0	21200.0	225,00-0	<5000C2	23500.0	241)00·ū	24500.0	25n00.0	3.00.552	J•00007	40°00°0	271,00·0	3.000	. 5 28000 · C	<000,00≥	29th 0 • 0	23500.0	200000	30205	31000.0	31500.0	340000	3.500.c	33n00•0	33500.0	3+000+6	34500.0	350,00•0

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE ,NTEMPOLATION.

ž Ž	MOT
FELT	HRS
3949.00	60 0815 HRS MDT
TALION ALTITUDE	00 .0.
TALLON ,	S MINT DO

UPPER AIR DATA

GEODETIC COOKDINATES 32-40045 LAT LEG 106-37033 LOH [LG		INUEX	5	REFRACT 10F	1.000004	1.000003	1.0000.1	1 • 000079	1.000013	1 • 0000 /6	1.600075	1.000074	1.000072	1.000071	1.000069	1.00000.8	1.000000	1.00005	1.000063	1 • 6.00 Cc.2	1.000000	1.000009	1.00005,7	1.600056	1.000054	1.000053	1.000652	1.00001	1.600649	1.000048	1.000047	1.000646	1.000045	1.000044	1 • 000043	1.000042
6EODE T10 32-4 106-3	1	1,4 1,4	SPEED	KNOTS	90.2	90∙6	92.8	94.6	7.96	6.46	92.2	87.2	81.6	49.6	79.U	81.7	86.1	89.1	5.06	92.4	91.1	9.06	9•68	၁•8 8	87.3	86.8	85.3	81.8	78.6	76.1	76.7	49.6	80.3	78.0	૧•99	55.1
		#1NU DATA	DIRECTION	DEGREES(IN)	239.9	23800	250.0	257.9	238.0	201.0	237.4	4•4٠	233.6	201.7	556°B	549.9	251.1	233.0	235.6	257.9	239.7	241.0	245.5	242.5	243-1	243.6	2+4.8	240.5	247.5	248•1	248.1	1.247	240.8	245.5	241.b	236.1
ંગુજ્	ntinued)	SPLEU OF	SOUND	KNUTS	564.2	502.9	501.7	5c0.4	579.2	577.9	576.7	575.4	574.1	573.4	573.1	572:8	572.5	572.2	571.9	571.6						574.8		573.7	573.1	575.5	572.2	572.3		572.7	6.276	
133002020U WHITE SANDS	TABLE 5 (continued)	DENSITY	GM/CUPIC	METEP	377.9	370.7	363.7	356.6	350.0	343.4	336.9	330.6	324.3	317.0	310.3	303.3	296.4	289.7	283.1	276.7	270.1	263.5	256.5	250.0	243.0	237.1	231.8	220.8	221.9	217.1	212.3	207.1	202,1	197.2	192.4	187.7
	1	REL.HUM.	PERCENT																																	
FELT MSL HRS MDT		TEMPERATURE	DEWPOINT	S CENTIGRADE	•						-	-	-	10		•	01	•	.0	•	•	-	6	٠,0	ΩI.	٠.		•	~	Δ1	١0	•	ΩI.	-4	6.	c
39.00 FELT 0815 HRS		16	AIR	DEGREES	-48.3	07-	-50.5	-51.2	-52.1	-53.1	-54.0	-55.0	-56.0	-56.5	-50	-57.0	-57.2	-57.4	-57.6	-57.	-57.8	-57.4	-57.0	- 56.6	-56.2	-55.5	-55.8	-50.3	-50.7	-57.2	-57.5	-57.3	-57.2	-57.1	-56.9	-26.
.fITUDE 39c		PRESSURE		MILLIBARS	24.5.9	V = 10 V	232.7	227.3	222.1	210.9	211.9	207.0	202.2	197.5	192.8	188.2	143.8	179.4	175.2	171.0	16/.0	163.0	159.1	155.4	151.7	148.1	144.6	141.2	137.9	134.6	131.4	126.5	125.5	122.5		110.6
STALLON ALITUDE 3989.00 FEET 12 NAT 50 0815 HRS ASCE 310: 40 260		SEUT, THIC	ALTI PUJE	WSL FEET	0.00	0.0000	0.00, 65	37,,00.0	37.00.0	38,100	345,00.6	340000	34,00.2	40000	400,00	410000	41500.0	42,00.6	42500.0	43000-F	4.500.0		0.00(344)	45a000	45590.9	400000	40500	470000	47500.9	9.00°00#	400,00	0.00154	J•0056*	500,00°C	50500	51000.0

JEODETIC COORDINATES J2.40043 LAF DEG	Š	INDEX OF HEFRACTION	-	1.000040	•	-	1.000057	1.000035	-	7	-	1.000012	-	1.000031	~	⊶.	1.000028	•	-	-	~ ·		C 10000 - T	7 -	7	~	-	-	1.000020	1.000019
JEODET 32	9	SPEED KNOTS	46.0	38.4	48.1	55.3	62.7	68.7	68.2	66.5	9.49	62.6	61.0	59.5	56.1	53.6	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	36.2	23.1	20.5	::	13.6	20.0	13.2	12.2	24.3	29.6	31.0	30.0	19.6
		MIND DATA DIRECTION S DEGREES(IN) K	227.1	215.6	210.0	213.0	X20•5	219.5	217.6	217.4	217.3	219.1	223.3	227.7	234.5	241.4	748.0	251.0	240+2	250.0	C•C>T	0 1	1000	121.2	195-1	540.5	250.8	251.5	251∙0	243.6
UATA 200 105	tinued)	SPEED OF SCUND KNOTS		575.3			570.8	5000	-							4.035		561.6		4.6.36	790	000	1000	574.2	574.3				574.4	574.4
UPPER AIR UA' 1330020260 WHITE SANUS	TABLE 5 (continued)	DENSITY GM/CUBIC METER	182.9	177.6	170.6	167.2	163.9	157.4	154.3	151.2	148.2	145.2	142.2	139.1	136.0	133.0	126.4	122.9	119.5	116.2	113.5	105.5	101	0.66	4.96	ħ• ħ6	92.2	0.06	87.9	85.8
-	1	REL . HUM. PERCENT																												
3989.00 FEET MSL 0815 HRS MDT		TEMPERATURE AIR DEMPOINT DEGREES CENTIGRADE	-56.3	-55•1 -55.0	-56.8	-57.6	30 H C C C C C C C C C C C C C C C C C C	-60.2	-61.1	-62.1	-63.0	-63.9	-64.7	-65.2	-65.	166.3	-66.1	#65.4	9.49-	0 • ; ; ;]		**************************************	1000 I	155.9	-55.9	- 55∙8	-55.8	-55.8	-55.8	-55.8
TUDE		PRESSURE MILLIBARS	113.8	111.2	106.0	103.5	101.0	90.5	93.9	91.6	h•68	87.2		83.0	0.18	79.0	75.2	73.3	71.5	£ 60	0.00	8.44	63.5	61.8	60.3	•	57.5	56.2	•	53.6
STATION ALITIDE	N. 1350 K	GEUMLTRIC ALTITULE MSL FELT	51500.0	©•0003C	53000-0	535,00.0	0+0000+0	00011CC	55500.0	0.00 00cc	26500.0	57,100.0	57500.0	541,00.3	36500•9	0.000.60	0.00000		61000·C	61500.0	0.00000	0.50000	0.55.00.0	0.00049	04500.0	65(100·ŋ	0-00500	00000	•	67000·ŋ

STATION ALIITUDE 3989.00 FEET MSL	12 MAY 60 ASCENSION NO. 260 0815 HRS MDT

UPPER AIR LATA 133002020 WHITE SANUS

JEODETIC COORDINATES 32.40043 LAT JEG 106.57033 LON DEG

PRESSURE TEMPERATURE REL.HUW. DENSITY SPEED OF WIND DAIA AIR DEWPOINT PERCENT GM/CUBIC SOUND DIRECTIO, SPE MILLIBARS DEGREES CENTIGRADE METER KNUTS DEGREESTIN) KNUTS DEGREESTIN KNUTS DEGREEST	। ਜ ਜ ਜ ਜ ਜ		0 10 0	2 1.000013 5 1.000013	-	7	3 1.000015 3 1.000014	.0	91000010 9	7	7	B 1.000017	1.000017	-	1 1.000018		INDEX OF REFRACTION		106.37033 LUN DEG
TABLE 5 (continued) PRESSUME TEMPERATURE REL.HUM. DENSITY SPEED OF AIK DEWPOINT PERCENT GM/CUBIC SOUND DIRE MILLIBARS DEGREES CENTIGRADE METER KNUTS DEGRE 52.3 -55.7 49.9 -55.7 40.4 -55.6 40.4 -55.6 40.4 -55.6 40.4 -49.6 40.5 -50.6 40.6 -50.8 50.6 -50.8 50.7 -50.6 50.8 -50.7 60.2 501.0 50.8 -50.1 60.9 501.0 60.	29.7	23.5	. W .	n a	~	8	16.	19.(17.	15.	14.	12.	11.	7.	ů	10.2	SPEED KNOTS		
TABLE 5 (CON TRANSCRIPT PRESSURE TEMPERATURE REL.HUM. DENSITY AIR DEWPOINT PERCENT GM/CUBIC METER METER 52.3 -55.7 METER METER 49.9 -55.7 METER 49.9 -55.7 METER 49.9 -55.7 METER 49.9 -55.7 METER 66.5 METER 41.3 -55.6 METER 66.5 MET	87.0 85.6	92.0 92.0 87.0	150.5	254.2	32.1	47.6	51.2 50.5	51.5	†•6 †	46•8	47.7	55.6	₹.	65.2	151.9	202.0	WIND DI DIRECTIO, DEGREES(IN)		
TABLE 5 (CON TRANSCRIPT PRESSURE TEMPERATURE REL.HUM. DENSITY AIR DEWPOINT PERCENT GM/CUBIC METER METER 52.3 -55.7 METER METER 49.9 -55.7 METER 49.9 -55.7 METER 49.9 -55.7 METER 49.9 -55.7 METER 66.5 METER 41.3 -55.6 METER 66.5 MET	5611.5 5611.5 5611.5	561.2 561.2 581.3	561.0 561.0	501.0	562.2	502.5	579.9	578.5	577.2	575.9	574.5	574.5	574.5	574.5	574.5	574.4	SOUND NOTS	tinued)	•
PRESSURE TEMPERATURE REL.HUM AIR DEWPOINT PERCEN AIR DEWPOINT PERCEN	5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	55.0 53.0	57.6 57.6 56.3	60•2 59•0	61.5	65.6	66.5	68.4	70.3	72.3	74.4	76.2	78.0	79.9	81.8	83.8	ပ	SLE 5 (con	,
PRESSURE TEMF MILLIBARS DEGREES 52.3 -55.7 49.9 -55.7 49.9 -55.7 40.4 -55.7 40.4 -55.6 41.3 -55.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6																	REL.HUM. PERCENT	TAE	
PRESSURE TEMF MILLIBARS DEGREES 52.3 -55.7 49.9 -55.7 49.9 -55.7 40.4 -55.7 40.4 -55.6 41.3 -55.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6 41.3 -50.6														•			PERATURE DEWPOINT CENTIGRADE		2
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	-50.4 -50.6 -50.5	50.7	-50.3	8.64-	9.64-	-51.6	-52.6	-53.6	-54.6	-55.6	-55.7	-55.7	-55.7	-55.7	-55.7	TEMF AIK DEGREES		
14 S 14 S 16 S 16 S 16 S 16 S 16 S 16 S		35.1 34.1	37.0 36.8 35.9	38.5	3.00	#*0#							1.84	6.64	51.1	52.3			_ 260
AND THE STATE OF THE PROPERTY			74500.0 75000.0 75500.0	74000-0	73500.9	73000-3	725,00.0	71500.0	71000.0	70500	70000	69500.0	C-00063	J•00.99	000000	67500.a	GEUMETHIC ALTITUDE MSL FELT		ASCE, SION NO.

MANDATORY LEVELS 1330020260 WHITE SANIS	TABLE 6
STATION ALTITUDE 3989.00 FEET MSL	ASCE1,510% NO. 200

PRESSURE GI	PRESSURE GEOPOTENTIAL		TEMPERATURE	KEL • HUN•	WIND DATA	ATA	
MILLIBARS	FLET	AIR DEGHEES	LE POINT CENTIGRADE	PEKCENI	DIRCC110N LEGKLES(TN)	SPELD	
850.0	*906*	12.8	-1.5	37.		14.3	
803.0	6552	8.5	-3.0	£5.		18.5	
753.0	8303.	6.9	-15.0	10.	273.3	22.5	
700.0	10145.	2.1	-21.8	15.		8•03	
650.0	12092.	-1.3	-24.6	15.		24.7	
0.009	14169.	-6.1	-27.9	16.		41.1	
550.0	16388.	-9.7	-31.2	15.	271.4	54.0	
500.0	18776.	-15.2	-35.3	16.		6.10	
450.0	21360.	-21.0	-39.5	17.		71.9	
400.0	24193.	-24.8	-41.6	19.		92.8	
350.n	27332.	-31.5	-47.3	19.		0.7.0	
300.0	30863.	-38.9)		6.26	
250.0	34B94.	-47.3				90,06	
200°	59639.	-50.4				0.0v	
175.0	42413.	-57.7				6.06	
150.0	45612	-56.0				07.1	
125.0	49435	-57.2				80.3	
103.0	24044•	-58.B				65.5	
80.0	58555	0.99-				6.45	
70.0	01218.	0.49-				13.0	
U.09	64380	- 55.9				13.7	
50.0	68189	-55.7				. · J	
0.04	72899.	-49.5				6.3	

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

· C. P. Walker

DATA		
C, NT LEVEL	1330030138	ALLEN
SIGNIFIC, NT	-	ې

TABLE 7.

GEODETIC COORDIN, TES 33-16712 LAT DEG 146-49511 LON DEG

REL.HUM.		32.0	•		27.5	•		0.10	7 7 7	•		•		= 3	701	10.C	0 . 4	17.0	o T															
RATURE	GREES CENTIGHADE	6	6.6-	•	6.5			, –		•	-34.5	-34.7	•		-47.4	• •	•	S . S .	;															
TEMPE	DEGREES		12.5	Œ	1.7		5. 0		2.2		-13.1	•	Š	-16.B		; =	30.5	-32-1	59		-46.7	-	6.45-	-53.4	-54.4	-53.1	-56.0	•	-	6	;			-60.7
GEOMETR	žŠ.	4051.0	Θ	~	•	555.	756.	8.1668	90	11380.1	_	_	_		_		_	26752.9	_	_	_	38583.6	_	*******	_	43000.6	_	_	_	51238.6	51860.0	53267.4	53982.9	57245.1
PRESSURE	MILLIBARS	876.2	920°0		746.9	742.1	736.5	730.0	700.0	667.0	~	a	.	2			~	*	0	J.	0	0	0	م	•	۵	0	·	,	~	8.	3.5	0.0	85.4

13

FTIC COORDINATES 13.16712 LAT DEG	INDEX OF REFRACTION	,	1.000501	1.000257	•	1.000249	•	.00054	•	•	•	•	.00021	•	1.000203	•	· 00019	_	1.000190	_	1.000184		1.000179	.0001	1.000173		1.0001		.000	1.000157	.000	1000	1.000149	•000	#	3	m	m	1.0 0135	ă	1.000130
6EODFTIC 43•16 1.16•49	SPEED KNOTS	,	14.0	12.8	13.7	14.6	15.6	14.7	12.8	12.5	15.0	21.1	25.6	27.9	28.5	29.8	31.2	31.6	32.4	32.6	33.0	33.4	34.3	36.0	37.8	S . 0	10.1	50.0	54.9	58.9	61.8	63.2	64.1	64.5	9.49	5. 49	#	4.49	67.8	71.3	74.9
·	MING DATA DIRECTION SI		0.022	22	224.7	226.8	228.0	231.2	235.4	249.0	263.0	271.7	272.8	271.6	269.0	265.5	262.4	201.5	260 ∙ 8	564.4	268•0	272.5	276.1	277.0	277.6	211.2	4.0/2 d.2/2	274.1	271.6	268.6	260.3	264.5	263.7	263.7	263.1	262.1	260.6	258.9	257.4	250 • 1	254.0
28 38	SPEED OF SOUND KNOTS		2000	6009	20	657.0	655.2	÷	651.6	9°649	6,7,49	640.2	648.3	647.4	9.949	645.4	644.2	6.249	641.3	639.7	638.1	636.5	6.450	633.3	631.	1.050	627.8				624.1	625.9	621.4	619.9	618.4	616.9	615.5	614.0	N	610.9	9
UPPER AIR DAT 1330030138 JALLEN TABLE 8.	DENSITY GM/CUBIC METER	17.5	•	043	031.	1018.3	•	992.4	979.5	•	•	941.6		905.4		875.3	•	849.2	830.9		•	•	•	•	10/01	767	730.4	720.6	709.1	4.969	683.9	-	66199	•	641.1	•	•	611.2	01.	તં	582.8
, L	REL . HUM. PERCENT		0.20		34.5	36.9	39.3	42.1	46.1	50.0	24.0	49.6	14.0	14.0	14.0	14.0	14.0	14.1	14.3	14.5	14.7	14.9	15.1	ശ	9.61	n v	16.0	9	16.0	16.0	16.0	16.0	16.0	o	16.0	16.	16.0	16.0	16.9	16.0	16.
JU FEET MSL 0815 HRS MDT	TEMPERATURE R DEWPOINT EES CENTIGRADE	9		2.0	-3.0	-3.5	0.7		L++7	-5.0	-5 -5	-7.9	-21.4	-	N	-23.3	-24.1	-25.0	-25.9	-26.8	-27.7	-28.7	-29.6	-30.6	21.5	22.5	6.88-	-34.7	-35.5	-36.0	-36.4	-37.2	-38.2	-39.5	-40.5	-41.2	-42.2	-43.3	や・カカー	-45.3	-46.3
S1.00 FEET MSL 0815 HRS MD	TEMP AIR DEGREES	15.7		0.4	12.2	10.6	.,,	9•,	0.9	•	2.9		•	6. 0	2.5	1.2	ņ	6.	-2.3 	9.5	0.1	יי פיני	9.9	0.	-10.5		-13.5	-14.5	-15.5	-16.0	-16.6	9.71-	-18.8	-20.0	-21.2	-22.4	-23.6	-24.8	-26.0	-2/.2	-26.4
TUUE 40	PRESSURE MILLI _{BARS}	876.2		7.200	9,0	801.5	210.5	801.3	760.5	7/2.0	7.757	745.7	729.8	716.2	702.8	9,629	20,9	663.9	1.1.9	628.5	620.2	614.1	602.2	0,70	3.9.6	5,74,6	540.0	535.2	524.6	514.1	503.8	495.5		Ξ,	403.7	404 %	5.00	435.7	₽,	414.0	#. 60#
STATION ALTITUDE 12 MAY 80 ASCLMSION NO. 13	GEUNETRIC ALTITUDE MSL FEET	6.604	0.700	4000	2000.0	5500.0	0.0000	0.0000	7000.0	7500.0	0.0002	0.0002	9000	9500.0	10000	10000	11000.0		12000.0		13000.0	13500.0	74000	14500.0	0.00001		10500.0	17000.0	17500.0	10000	18200.0	19000	14500.0	20000	20206.0	21000.0	21500.0	22000.0	22500.0	23000.0	2.5500.0

ATION.
INTERPOLATION.
当 3
MAS USED 1
VALUE WAS
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ASSUMED RELATIVE HUMIDI
ONE ASSUMED RELATIVE !
RELATIVE

																																								•	
	47311 LON DEG	INDEX	OF REFRACTION	1.000128	1.000126	1.000124	1.000121	1.000118	1.000116	1.000.1	1.000112	1.000110	1.000108	1.000106	1.000104	1.000102	1.000100	£50000•1	1.000001	1.000093	1.000092	1.000090	1 • 000088	1.000087	1.000085	1 · 0000 · C	Z#0000•1	000000 T	1.00001	1.000076	1.000074	1.000073	1.00001	1 • 000069	1.000067	1.000066	1.000065	1.000063	1.000061	1.000060	1.000059
6E OUE TE	907	TA .	SPEED KNOTS	78.6	81.8	85.9	61.7	7.96	100.7	9.66	98.0	98.7	5° 66	103.5	108.4	112.5	***	2.4.7	****	105.2	105.9	107.8	109.8	111.7	112.0	112.5	115.8	111	108.9	103.4	96.3	98.2	96.0	95.5	92.7	90.1	87.7	85.4	82.0	78.0	74.0
		WIND DATA	DF GREES (TW)	253+3	252.2	251.7	252.2	252.7	255-2	252.7	252.2	251∙8	251.5	251.6	252.0	252.3	656.5	202.5	7.010	248.4	247.3	246.4	245.2	244.0	242.5	2.142	240.0	2.02.0	237.9	235.8	233.5	233.0	233.6	233.3	233•0	233.0	233.7	234 • 4	235.4	236.6	237.9
)ATA 18	(continued)	Ϋ́	KNOTS	6.709	600.7	605.6	606.3	606.7	605.5	604.3	603.2	602.0	6000	2669	598.0	1000	39096	504.00	500	591.0	589.7	508.3					505.0	\$ 00 S	579.0	5,77.7	576.4	575.9	575.5	576.4	577.3	576.9	576.2	576.8	577.3	577.9	5,77.2
UPPER AIR DATA 1330030138 JALLEN	TABLE 8 (cor		GM/CUBIC METER	573.6	563.7	553.8	540.9	528.7	519.6	510.5	501.3	492.4	403.6	0.07	C . 100	2.004			420-3	418.7	411.3	403.9	396.7	386.4	380.8	7.0	2000	353.0	340.6	340.2	333.9	326.7	319.4	311.0	302.8	290.1	289.9	282.6	275.4	266.5	262.9
,	ĭ		PERCEN	16.0	16.5	17.0	16.5	16.1	16.7	15.9**	13.8**	11.6**	7.54	****	•		•																								
r MSL S MDT		TEMPERATURE	CENTIGRADE	-47.3	-47.8		-48.1	-48.1	9.84	8.64	8.14	-53.9	5.00-	1.60	1079	2,42	3																								
1.00 FEET 0815 HRS		TEMP	LEGREES	7.62-	-30.6	-31.5	-31.0	-30.6	-31.6	-32.6	0.00	す・すつ! 	0.00 m	30.5	18.0	-38-9	-39.9	-41.0	-42.0	-43.0	0.11	-45.1	1.0	10	150.0	0 0	3	-51.2	-52.2	-53.2	-54.2	-54.6	-54.9		-53.6	5.5.C	1.44.4	-53.9		7:	-55.
STATION ALTITUDE 4051. 12 MAY 60 ASCENSION NO. 138 08	4	PKESSURE	MILLIBARS	401.0	394.5	344.2	3,0.1	308.1	5.00F	325.6	0400	3,7,0	20000	410.1	46.00	3000	6.156	289.3	282.9	270.6	2/0.5	204 · t	208.0	202.1	24.7														1,3.	109.6	102.0
STATION ALTITION ALTITION AND ASCENSION NO.		UEUME THIC	MSL FEET	24000.0	0.00045	25000.0	25500.0	20000°	0.00002	2/000.0	0.00072	200002	0.0000	0.0000	3.0000.0	30,000	310000	31200.0	32000.0	3<500.0	3,000.0	33500.0	34000	34,500.0	35000.0	20000	0.0000	370.00.0	3/2/0.0	30000.0	300000	39000.0	39506.0	4.0000	0.00004	41000.0	41500.0	4<000.0	2500.	3000.	•

STATION ALTITUDE 40		051.00 FEET MSL 0815 HRS MDT	FEET MSL HRS MDT	,	UPPER AIR DATA 1330030138 JALLEN	DATA Se		6E00FTI	GEODETIC COORDINATES
ASCENSION NO.	138		!	TAI	TABLE 8 (continued)	tinued)		106.	49511 LON DEG
GEOMETRIC ALTITUDE		TEMF AIR	TEMPERATURE R DEMPOINT	REL.HUM. PERCENT	DENSITY GM/CUBIC	r.	WIND DATA	SPEED	INDEX
MOL FEET	MILL BARS	DEGREES	CENT TOWADE		A L	200	DECKEESTIN	Y ON X	MEFRACI TON
44000.0		-54.5			257.4		239.4	70.1	1.000057
4+500.0	158.0	9.45-			252.0	575.7	240.0	67.0	1.000056
45000.0		. 22.3			240.7		240.1	64.1	1.000055
45500.0	1.001	-55.9			241.6		240.0	65.2	1.000054
40000.0	147.1	-20.6			230.6		239.6	76.0	1 • 000053
46500.0	143.6	-57.3			231.7	572.4	239•1	93.5	1.000052
47000.0	140.2	-58.0			227.0		238.2	83.3	1.00001
47500.0	150.9	-58.7			222.3		237.2	81.5	1.00005
46000.0	133.6	-59.5			217.5		235.6	76.2	1.000048
40500.0	130.4	-59.4			212.6		233.9	71.6	1.000047
0.00064	127.3	-59.6			207.7		232.2	7. 69	1.000046
49500.0	124.2	-59.6			202.7		230.9	68.3	1.0000,45
50000	121.3	-59.6			197.9		232+3	72.6	1.000044
50200.0	118.4	-59.7			193.1		233.7	76.8	1.000043
51000.0	115.5	-59.7			188.5		236•1	79.8	1.000042
51500.0	112.8	-60.2			184.5		236.3	83.0	1.000041
52000.0	110.1	-60.7			180.4		238.7	76.3	1.000040
52500.0	107.4	9.65			175.2		239.1	69.5	1.000039
53000.0	104.8	200			170.2		239.2	63.8	$1 \cdot 000038$
53500.0	102.3	6.75			165.6		239.2	58.4	1.000037
54000.0	6.66	-57.9			161.7		239.2	55.8	1.000036
54500.0	97.5	-58.3			150.2		239.1	55.4	1 • 000035
55000.0	2.0	-56.9			154.7				1 • 0000.34
55500	92.9	-59.5			151.3				1.000034
50000	7°06	-59.6			148.0				1.000033
50200.0	86.5	-60.1			144.7				1.000032
57000.0	#• OB	-60.5		٠	141.6				1 • 000032

MANDATORY LEVELS 1330030138	JALLEN	TABLE 9.
7	ASCENSION NO. 138 0815 HRS MDT	

COOKDINATES	LAT DEG LON DEG
ODETIC COOF	33.16712 106.49511
GF OC	-

PRESSURE 6	PRESSURE GEOPOTENTIAL		TEMPERATURE	REL . HUM.	WIND DATA	ATA
MILLIBARS	FEET	AIR DEGREES	DEWPOINT CENTIGRADE	PERCENT	DIRECTION DEGREES(TN)	SPEED KNOTS
850.0	4888.	12.5	-2.9	34.		13.5
800.0	6541.	7.4	3.4-	42.		14.6
750.0	. 8568	2.0	-5. 6	50.		18.3
700.0	10097	8	-22.6	• • • •		28.7
650.0	12043.	-2.4	-26.0	, t		32.4
0.000	14106.	-7.9	-29.8	.5.		34.7
550.0	16300.	-13.3	-33.7	9		45.2
200.0	18662.	-10.8	-36.6	9		62.3
450.0	21227.	-22.9	-41.7	9.		64.3
0.004	24021.	-29.8	4.74-	16.		78.9
350.0	27126.	-32.9	4.05-	15.**		99.1
300.0	30638.	-39.3		•		14.7
250.0	34664.	-46.7			•	11.8
200.0	39420.	-54.9			•	98.0
175.0	42232.	-53.7				4.19
150.0	45473.	-56.0				66.8
125.0	49237.	-59.6				68.0
100.0	53820.	-57.9			239.2	55.8

** AT LEAST ONE ASSUMED RELATIVE HUMIDITY VALUE WAS USED IN THE INTERPOLATION.

SIGNIFICANT LEVEL DATA	STALLION	TABLE 10
	STATION ALLITONE TOTAL FOR FELL HOLD IZ HAY GO DOTA HOLD MAT	.0. 42

0000011C 0000010A1ES 33.81920 LAT 5.L6 106.80501 LOH 0.E9

	RLL-HUM. Percent	48.0 30.0 55.0 15.0
TABLE 10.	TeripuraTuke Air Dempolat Desiles Centionade	~ N 3 4 7 G 2 7 2 I I N 7
TABLE	TerPE AIR DEGRES	111 111 112 113 113 113 113 113 113 113
	PRESSURE GEOMFTAIC ALTITUDE ILLIBARS ASE FELT	4940.0 5265.7 7112.7 10097.5
	PRESSUKL MILLIBAKS	847.8 837.8 782.8 700.0

PRESSURE		~	Ter, PLRA TURE	RLL.:IUM.
MILLIBARS	ALTITUDE ASL FELT	AIR DEGRES	DE WPOLAT CENTIONALE	Peilceil
	0	11.3		•
	5265.7	11.8	2.5-	30.0
	-	5.5		35.0
704.0	5	1.0	7. 22_	12.0
ŧ	13083.0	5.5	-28.5	D• #1
٥	17250.2	•	-35.0	16.0
ć	18608.4	-10.7	-3c-	15.0
٠	-	-24·5	+ +2+ -	17.0
0	24(127.9	-28.5	5.05	15•0
#	_	-32.5	6-65-	17.0
ė	٠.	-33.4	パ・パサー	17.0
0	3n665 . 1	-37.1	•	
0	34729.3	6.54-		
ō	35931.6	6.64-		
Ö	30452.0	1.8 h-		
0	_	†• 64−		
Ę	37575.9	1.04-		
æ,	58041.2	-51.B		
0	39550.8	-1,2.5		
٥	40463.7	-52.9		
'n	41179.0	0.0%-		
0	43147.7	-6,3.3		
‡	44787.0	2.4.5-		
c	45570.4	-53.c		
٥		-52.5		
o.	49.763.3	-56.1		
٥	•	ŝ		
0	54189.1	•		
9	58115.3	-62.2		
*	76	•		
0.0	61516.9	-63·U		
6	Ξ.	-63.5		
ċ	3	-55.0		
57.B	05494.9	-54.1		

UJE
ASC.; 510; NO. 42
PRESSURE TEMPERATURE AIR DENPOINT MILLIDAMS DEGREES CENTIGRADE
847.8 11.3 .7
11.1
ສ ຄ.
6.8
5.9
2•0
4.2
†• 0
9:
ק
•
٠. ا
636.5 -3.9 -27.2
-5.0
-0.2
0.000
-10.0
-11-2
-12.5
0.04.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0 0.00.0
-17.2
-10.3
↑• 6 I −
-24.3
^
-26.0
- K.O.A.
0 -27.6
460-54 - 458-5 - 458-9

STATION ALITUDE 4940.no FEET MSL 12 MJ MG ASCL.SIDM MO. 42 0815 HRS MDT

UPPER AIK LATA 1330040042 STALLIGA

00000110 000m014A1ES 33.01420 0A1 150 100.00001 004 (10

TABLE 11 (continued)

TILLEX CF REFRACTION	1.0001;5	1.000000	1.0001.1	1.000113	1.0001.7	1.000119	1.000112	1.000114	1.60011.3	1.066100	1.000104		1.00100		1.0000 16	1.0000					1.606976	1.0000	1.101.003	1.0000.1		1.000078	1 • 000076	1.400075	1.000073	1.00072		1.00000	1.40000	1 • 0000c5	1.0000.4	1.000cz	1.00006.1	1.00000	1.000959	1.606657
IN SPEEU NOUTS	80.3	80.1	6.96	103.3	108.6	1111.3	113.6	113.8	113∙8	114.3	115.3	116.1	113.5	111.	106.2	100.00	97.B	97.7	97.e	96.7	466	102.R	106•0	110.4	114.9	115.1	114.7	113.3	111.3	167.4	100.0	92.5	63.2	73.8	72.3	73.c	77.0	85.9	•	98.5
With DAIN OLIGHERS (IN) N	7.602	2030	0.10%	C. (107	7.6,07	7.00,7	2.22	0.00	J•007	2.407	7.4.67	4.50,7	1.757	いってい	7-107	C+1)C2	0.002	う・いつ	4.00%	20002	\$ • D.C.7	2.647	7.05.7	2 tù•4	C+++7	4.04.7	2,41.5	7 - 11 + 12	7.602	0.pc2	6.000	1.467	0.40%	どうと・い	C++C/	407.52	240.5	243.0	7.44.7	0 + / 5/2
SPLED OF SOUND NAUTS	1.0000	7.000	J. 1.19	5. 5.10	5.00	6.610	5.200	E. 1.7	0.000	0.0.19	2.646	4.000	0.140	3-0-0	5,000	J.4.C	292.0	0.175	Ç*055	1.400	501.9	5000	9.535	5.4°5	4.4.0	5:24 B	5c3.1	5,,4.0	$5.0 \cdot 0$	3.6/3	570.0	4.07.0	4.0/5	5.1.0	501.5	500.5	5/9.1	0.0/5	517.4	2,00.7
DENSITY S GM/CU31C METER	569.5	551.1	541.9	532.1	521.7	51104	561.7	492.5	6.704	473.0	व • ५३५	456.0	447.4	439.5	431.5	4524	415.7	7. ppt	3.004	393.0	386.5	379.5	372.0	364.0	35006	350.0	342.2	3,700	329.5	323.1	310.4	30'2+4.	302.3	202.1	285.7	280.1	274.7	269.3	263.7	25.6 • 1
REL.NIM. PERCENT	15.5	1001	16.7	17.0	17.0	17.0	15.0**	15.6**	10.2**	7.9**	5.54*	3.1**	•8*																											
TEMPERATURE AIR DEMPCIAT GREES CENTIGRADE	-47.5	C . C. 71	1.0.5-	7.00	-43.5	6.04-	-51.5	-53.4	1.56.	-53.3	-61.5	-06.1	-76.0																											
TEMF AIR DEGREES	-29.5	30.6	-31.7	-32.5	-32.9	-33.3	0.45-	-34.6	-35.3	-35.9	-30.6	-37.2	-37.9	-38.7	-39.7	-40·1	-41.6	-42.6	-43.5	-44.5	-45,5	4.04-	-47.2	6.24-	-46.1	4.64-	-49.1	6.64	-50.9	P. 1.9	-55-4	-52.7	-52.8	-50.7	-50.5	-51.4	-52.2	-53.1	-53.6	-54•0
PRESSURE HILLI _{DARS}	397.0	58.50	375.6	307.06	359.B	552.1	344.5	537.1	329•8	322.6	515.7	306.8	3112.2	292.5	239.0	282.6	270.3	270.2	264.2	250.3	552•6	240.9	241.3	232.9	230.5	250.5	220-1	215.0	210.1	202.5	200.5	195.8	191.3	100.9	102.5	176.5	174.2	170.2	100.2	102.3
6FU.4L THIC AL 11110E HSL FEE 1	745,00.0	0.000 × 2	v.00'.c>	C.00002	0.00 co	2.000.72	27.000·n	C000000	C-00'007	2.00°16.5	25,000.62	C.00000	0.00°;00°	0.00,10	51500.0	326.00.0	J-600025	55000°	0.00,555	C+001140)	5+000np	3.00,000	£ 00,500	ປ•0ບ':ລາ	30,,000	27,100.0	37.,00	30000c	3∙0 0€2€	3×1,00 • C	395,00 • 0	\$•0u'00+	40,00	4T:00.0	41500°C	4-Ci 00 • C	425,00.0	45000°C	45.00.5	9+00 ⁻¹ 6+4

^{**} AT LLAST ONE ASSUMED RELATIVE HULLINITY VALUE ANS USED IN THE ANTENPOLATION.

STATION ALTITUDE 4940. FO FEET MSL 12 MAY 8:0 ASSULES ASSULES ASSULES ASSULED ASSULES ASSULED
UPPER AIR DATA

oEGDETIC COURDINALES 33.01920 LAT DEV 196.00501 LOW LEG

TriveX OF REFRACTION	1.000056 1.000055 1.000053 1.000053		1 • 0000 0 • 1		1.00002
SPEED KAOTS	102.5 102.5 93.9	76.15 63.0 75.0 77.0 87.0	6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	6 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	
"IND DATA UIRECTIO, SI UEGNEES(14) K	247.7	240.0 240.0 240.0 2410.1	2000 C C C C C C C C C C C C C C C C C C		
SPEED OF SOUND NAUTS	576.1 576.1 577.0	574.1 576.2 576.2 576.2 576.7	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	5/3.3
DEGSTTY SOME CONTENTS NETER	252.5 246.6 240.2 234.1	220.20 220.20 210.00 200.40 200.40	1801 1801 1801 1801 1801 1709 1709 1801 1801 1801 1801 1801 1801 1801 18	100 464 70 4 4 70 4 74 70 10 70 70 70 70 70 70 70 70 70 70 70 70 70	9.66
REL.HUM. PURCENT					
TENPERATUPE R DELPOINT EES LEATIGRADE					
TEN: AIR DEGREES	3.4.3.4.3.4.3.4.4.4.4.4.4.4.4.4.4.4.4.4	2000 2000 2000 2000 2000 2000	-55.08 -55.08 -50.1 -50.1 -51.1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4.05-
PRESSURE MILLIGNAS	156.5 154.8 151.2 147.7	144.3 147.4 137.6 151.3 151.3	117.5 1119.5 1110.5 1113.8 1011.1		1.20
SEDOLTHIC ALTINOCASELT	C+00UTAAA	0.000 (2.77 to 0.000			0+fy01+6

EODETIC COOKGINATES 33.41920 LAT FFG 105.00501 LOW ELG	ILDEX OF MEFRACTADE	1.000022
LEODET 133 1 P. S.	LINGUELA SPEED CHARLOCKLES(TH) KROTS	
UPPER AIR CAIR 1336040042 STALLIGH TABLE 11 (continued)	TEMPERATURE RIL-MUM. DEMSITY SMELD OF AIR DEMPOINT PERCENT GMZCURIC SOUND DEGREES CEMTIGRADE METER KNOTS	90.7 575.4 94.5 570.0
STATION ALITTUDE 4940.00 FEET 145L 12 447 20 15LL,Sidi 140. 42 0815 HRS MDT	DEUNITUDE TEMPERATURE ALITUDE ALK DENPOINT SELT MILLIDARS DEGREES CENTIGRADE	60.6 -55.0 59.2 -54.5
5TmT 0N A	GEUNIC TRIC ALTITUDE 11SE FEET	04500.0 05000.0

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	STATION ALTITUDE 4940.00 FEET MSL	STATION ALTITUDE 4940.60 FEET MSL 12 M.Y = 0

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ANDATORY LLVLLS 1530049842	ורוסו
MANDA 1	STAL

0E0DETIC COOKHIMATES 33.81920 LAT LEG 106.60501 LOH LEG

STALLION	TABLE 12.
HRS MDT	

PKESSUKE G	PRESSURE GEOPOTENTIAL	i E	FKA I URE	N.L 10%	19 T P 1	DATA	
MILLIGARS	FEET	AIK DEGREES	DEGREES CENTIGRADE	PENCEN!	UZSKEES(TN) KNO	SPEED KNOTS	
P00.0	6521.	8.2	-7.5	32.	254 • 1	10.6	
750.0	8256.	4.6	-13.1	•	202.1	1.6.7	
7007	10039.	1.6	-22.2		271.0	32.0	
U•049	12031.	-2.8	-26.3	÷	774.4	5.50	
0.009	14092.	-7.7	-30.1	.	272.3	400	
550•n	16289.	-13.2	-33.9	10.	201.5	10.1	
0.00g	18645.	-18.7	-38.2	10.	276.9	\$. \$. \$. \$. \$. \$. \$. \$. \$. \$.	
456.0	21176.	-23.8	6-14-	17.	2.17.5	0.43	
400.0	23991.	-28.5	6.94-	15.	207.0	7.5.7	
350.0	27092.	-33.5	-50.1	17.**	257.9	112.0	
300.0	. 6000 c	-38.1			254.5	112.7	
250.0	34659.	-45.9			540.9	101.0	
200.0	39461.	-52.5			230.8	カ・	
175.0	42303.	-52.0			239.7	75.8	
150.0	45553.	-53.6			245.5	4.16	
125.1	49324.	-55.9			209.3	30.4	
100.0	54028•	-59.1			241.1	5.60	
80.0	56563.	-60.4			173.4	7.3	
70.n	61313.	-63.0			250.3	43.5	
U•09	64430	-54.8			ŀ	1	

AT LEAST ONE ASSUMED RELATIVE HUMINITY VALUL WAS USED IN THE INTLAPPOLATION.

DATE FILME